ABSTRACT OF THE DISCLOSURE

An organic electroluminescent device includes an anode; a hole-transporting layer disposed over the anode; a light-emitting layer disposed over the hole-transporting layer for producing blue light in response to hole-electron recombination, wherein the light emitting layer includes at least one host material and at least one dopant material; a non-hole-blocking buffer layer formed in contact with the light-emitting layer, wherein the non-hole-blocking buffer layer has substantially the same ionization potential and the same electron affinity as those of one of the host materials in the light-emitting layer; an electron-transporting layer disposed over the non-hole-blocking buffer layer; and a cathode disposed over the electron-transporting layer.